

Approved by OMB¹
 Control No.: 3150-0183
 Expires: 02/28/2023

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM

QUESTIONNAIRE

Rhode Island Agreement State Program

Reporting Period: March 11, 2016 through October 22, 2021.

Note: If there has been no change in the response to a specific question since the last IMPEP questionnaire, the State or Region may copy the previous answer, if appropriate.

A. GENERAL

1. Please prepare a summary of the status of the State's or Region's actions taken in response to each of the open recommendations from previous IMPEP reviews.

B. COMMON PERFORMANCE INDICATORS

I. Technical Staffing and Training

2. Please provide the following organization charts, including names and positions:
 - (a) A chart showing positions from the Governor down to the Radiation Control Program Director.
 ▲ See Appendix A: Radiation Control Program Hierarchy Chart
 - (b) A chart showing positions of the radiation control program, including management; and
 ▲ See Appendix B: RI Department of Health Organizational Structure Chart
 - (c) Equivalent charts for sealed source and device evaluation, low-level radioactive waste, and uranium recovery programs, if applicable.
 ▲ Not applicable for Rhode Island
3. Please provide a staffing plan, or complete a listing using the suggested format below, of the professional (technical) full-time equivalents (FTE) applied to the radioactive materials program by individual. Include the name, position, and, for Agreement States, the fraction of time spent in the following areas: administration, materials licensing & compliance, emergency response, low-level radioactive waste, uranium recovery, other. If these regulatory responsibilities are divided between offices, the table should be consolidated to include all personnel contributing to the radioactive materials program.

If consultants were used to carry out the program's radioactive materials responsibilities, include their efforts.

¹ Estimated burden per response to comply with this voluntary collection request: 53 hours. Forward comments regarding burden estimate to the Records Management Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0183), Office of Management and Budget, Washington, DC 20503. If an information collection does not display a currently valid OMB control number, NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

| NAME | POSITION | AREA OF EFFORT | FTE ² |
|-------------------|---------------------------------------|--|------------------|
| Alexander Hamm | Supervising Radiological Health Spec. | Program Management & Policy Review | 0.66 |
| Dennis Klaczynski | Senior Radiological Health Spec. | Inspection | 0.44 |
| Thomas Caruolo | Radiological Health Spec. | Emergency Response; Licensing (Reciprocity) & Inspection | 0.70 |
| Maria Barnes | Radiological Health Spec. | Inspection & Licensing | 0.51 |
| William Dundulis | Risk Assessment Toxicologist | Licensing; Regulations & Policy Development | 0.56 |

4. Please provide a listing of all new professional personnel hired into your radioactive materials program since the last review, indicate the date of hire; the degree(s) they received, if applicable; additional training; and years of experience in health physics or other disciplines, as appropriate.
 - ▲ Maria Barnes joined the Radiation Control Program as a Radiological Health Specialist on 3 April 2017.
 - ▲ Austin Olson joined the Radiation Control Program as a Supervising Radiological Health Specialist on 23 September 2019.
 - ▲ Alexander Hamm joined the Radiation Control Program as a Supervising Radiological Health Specialist on 11 April 2021.
5. Please list all professional staff who have not yet met the qualification requirements for a radioactive materials license reviewer or inspector. For each, list the courses or equivalent training/experience they need and a tentative schedule for completion of these requirements.
 - ▲ Maria Barnes has completed the NRC license reviewer training course and is fully qualified to review limited-scope medical, portable gauge and industrial radiography licenses. It is anticipated that she will be qualified to review additional license categories when appropriate renewal applications are submitted to Rhode Island. She has submitted applications for H-122 (Fundamental Health Physics I and II) and G-205 (Root Cause/ Incident Investigation Workshop). She also needs to complete H-201 (Advanced Health Physics).
 - ▲ Alexander Hamm has completed NRC inspector training course. He has submitted an application to attend the NRC license reviewer course. He is currently waiting on acceptance to this and other required training courses.
6. Identify any changes to your qualification and training procedure that occurred during the review period.
 - ▲ Rhode Island has adopted an inspector and materials license reviewer qualification program that is comparable to the most recent revision to IMC1248.

² Total of 2.89 FTE based on time reported for July-September 2021. Average for SFY 2021 was 2.30 FTE. Actual FTE utilized will vary slightly from quarter to quarter.

7. Please identify the technical staff that left your radioactive materials program during the review period and indicate the date they left.
 - ▲ Charma Waring (Supervising Radiological Health Specialist) resigned from the Radiation Control Program on 16 March 2019.
 - ▲ Austin Olson (Supervising Radiological Health Specialist) resigned from the Radiation Control Program on 14 March 2020.
8. List any vacant positions in your radioactive materials program, the length of time each position has been vacant, and a brief summary of efforts to fill the vacancy.
 - ▲ Not applicable.
9. For Agreement States, does your program have an oversight board or committee which provides direction to the program and is composed of licensees and/or members of the public? If so, please describe the procedures used to avoid any potential conflict of interest.
 - ▲ RI Gen. Laws § 23-1.3-13 - Radiation advisory commission. – *There is created an advisory commission to be known as the state radiation advisory commission, which shall consist of eleven (11) members.*
 The Commission was intended to function as an “advisory” group with the Agency having the discretion to accept or reject direction from the Commission. However, the Commission has not met during the current IMPEP cycle.

II. Status of Materials Inspection Program

10. Please identify individual licensees or categories of licensees the State is inspecting less frequently than called for in NRC’s Inspection Manual Chapter (IMC) 2800 and explain the reason for the difference. The list only needs to include the following information: license category or licensee name and license number, your inspection interval, and rationale for the difference.
 - ▲ None of the Radiation Control Program’s radioactive materials licenses are being inspected less frequently than called for in NRC’s IMC 2800.
11. Please provide the number of routine inspections of Priority 1, 2, and 3 licensees, as defined in IMC 2800 and the number of initial inspections that were completed during each year of the review period.
 - ▲ See Appendix C: Initial/Routine Inspections – 2016-2021
12. Please submit a table, or a computer printout, that identifies inspections of Priority 1, 2, and 3 licensees and initial inspections that were conducted overdue.
 - ▲ Newport Hospital was conducted overdue on 28 April 2021. However, this inspection had been delayed because it was specifically requested to be one of the inspections included with the inspector field audit portion of this IMPEP.
13. Please submit a table or computer printout that identifies any Priority 1, 2, and 3 licensees and initial inspections that are currently overdue, per IMC 2800. At a minimum, the list should include the same information for each overdue inspection provided for Question 12 plus your action plan for completing the inspection. Also include your plan for completing the overdue inspections.
 - ▲ There are no overdue inspections per IMC 2800 as of 1 October 2021.
14. Please provide the number of reciprocity licensees that were candidates for inspection per year as described in IMC 2800 and indicate the number of reciprocity inspections of candidate licensees that were completed each year during the review period.

▲ See Appendix D: Reciprocity Inspections – 2016-2021

In general, any Category A or Category B approvals would be a candidate for inspection, if they actually entered the state (i.e., some companies maintain a reciprocity approval “just in case” they need to provide short notice services for existing clients). Category C approvals are generally not candidates for inspection. However, they are reviewed on an individual basis (e.g., scope of work, client, past compliance history, etc.) to determine if they should be scheduled for a reciprocity inspection.

III. Technical Quality of Inspections

15. What, if any, changes were made to your written inspection procedures during the reporting period?

▲ The Inspection Manual had several interim/draft revisions during the current IMPEP cycle. The most current revision was completed in July 2021 and is compatible with IMC-2800 dated 2 March 2020.

▲ See *2021 Rhode Island IMPEP Criteria Document Status* for additional details.

16. Prepare a table showing the number and types of supervisory accompaniments made during the review period.

▲ See Appendix E: Accompaniments – 2016-2020

17. Describe or provide an update on your instrumentation, methods of calibration, and laboratory capabilities. Are all instruments properly calibrated at the present time? Were there sufficient calibrated instruments available throughout the review period?

▲ The Radiation Control Program has updated survey equipment used to conduct field inspections and respond to incidents.

▲ Instrument calibration is provided by equipment manufacturer and/or outside vendors. All field instruments are calibrated on at least an annual frequency and rotated such that sufficient quantities of instruments will be available for use during calibration periods. Laboratory capabilities are limited-the State laboratory no longer has the capabilities to provide assistance with evaluating wipes or other field samples. The Radiation Control Program has an understanding with two broad scope licensees to provide limited laboratory assistance on an as-needed basis.

IV. Technical Quality of Licensing Actions

18. How many specific radioactive material licenses does your program regulate at this time?

▲ See Appendix F: Current Licenses [42 specific licensees].

19. Please identify any major, unusual, or complex licenses which were issued, received a major amendment, were terminated, decommissioned, submitted a bankruptcy notification, or renewed in this period.

▲ Rhode Island Hospital is our most complex licensee and had requested a number of significant license amendments during the period of this review.

▲ While other licenses have been issued, renewed, terminated, or decommissioned during the period of this review, none of them would be considered complex or unusual licensing actions that required a disproportionate amount of staff effort for review. However, it should be noted that licensing certain new technologies (e.g., PET and PET/CT), where regulatory jurisdiction is shared with other Health Department agencies, does require a high degree of coordination (and some additional meetings) to ensure that no regulatory approvals are granted until all agencies are ready to proceed with licensing.

▲ With the exception of the corporate reorganization (not technically a bankruptcy but did go

through the Federal Bankruptcy Court) of Genesis/21st Century Oncology, there were no bankruptcy notifications submitted for RAM licensees during the period of this review.

20. Discuss any variances in licensing policies and procedures or exemptions from the regulations granted during the review period.
 - ▲ No significant variances or exemptions were issued during the period of this review. However, several licensees requested, and were granted, COVID-19-related variances in accordance with established NRC criteria.
21. What, if any, changes were made in your written licensing procedures (new procedures, updates, policy memoranda, etc.) during the reporting period?
 - ▲ Revised licensing checklists have been prepared for reviewer use. In addition, RI-specific regulatory guides (comparable to NUREG 1556 series) have been developed for a number of areas.
 - ▲ See *2021 Rhode Island IMPEP Criteria Document Status* for additional details.
22. Identify by licensee name and license number any renewal applications that have been pending for one year or more. Please indicate why these reviews have been delayed and describe your action plan to reduce the backlog.
 - ▲ See Appendix G: Renewals Issued – 2016–2021.
 - ▲ There are currently no renewal applications pending in-house. However, at least one license will be due for renewal between the time this questionnaire is submitted to NRC and the IMPEP site visit is conducted.
 - ▲ With the exception of Rhode Island Hospital and Landmark Medical Center, review for the last of the backlogged renewal applications was completed in August 2017. With the exception of RI Emergency Management Agency (RIEMA), review of all renewal applications received during the current IMPEP cycle was completed well within a year of receipt.
 - ▲ Rhode Island Hospital's original renewal application had been submitted on 30 July 2002 and was not initially reviewed. A file audit conducted in August 2007 determined that formal review of renewal had not been initiated but that the licensee had submitted 20 amendment requests in the proceeding 5 year period. On 7 August 2007 the licensee was requested to review all amendment requests and submit a revised renewal application. Apparently RIH did not respond to this inquiry and the renewal per-se was never reviewed, although a number of subsequent license amendments were reviewed and processed. A revised renewal request was subsequently submitted by the new RSO on 6 July 2015. Review had been initiated when Rhode Island was approached by the licensee about merging the existing Gamma Knife license into the broad scope license during the renewal process. After a series of back and forth discussions about what would be required to merge the licenses, the licensee ultimately decided to keep the licenses separate. Review of the renewal request was resumed, and the renewal was ultimately issued on 9 April 2018. In addition to the renewal review and license merger discussions Rhode Island also processed a total of 5 amendments to the license from 6 July 2015-9 April 2018.
 - ▲ Landmark's original renewal application had been submitted on 28 August 2014. An additional information letter was generated on 14 October 2014. The response dated 6 January 2015 did not resolve all outstanding issues. The matter became further complicated when Landmark's corporate parent announced its intent to convert the hospital from a not-for-profit to a for-profit facility. Because this action required review and approval from other agencies within the RI Department of Health, the renewal was placed on-hold pending the outcome of this review. No further action was taken until January 2018 when the RCP

was notified that other agencies within the Department had approved the previously requested change in status but that a new petition had been received to return Landmark to a not-for-profit status. An additional information letter was sent on 6 January 2018 requesting clarification of status. However, a response was not received until 21 August 2018. At this point, the renewal clock was “reset”, and another round of additional information letter and reply was necessary until the renewal was actually issued on 19 October 2018.

- ▲ RIEMA’s 30 May 2016 submittal to renew license 8A-009-01 also included a request to consolidate (and subsequently terminate) RAM covered under license 8A-009-02. Additional review of the renewal application was put “on-hold” pending action to combine all RAM possessed by RIEMA onto the 8A-009-01 license and termination of 8A-009-02 license. An amendment to terminate 8A-009-02 was issued on 8 March 2017. Several rounds of additional information letters and licensee responses were necessary before a renewal could be issued for 8A-009-01 on 19 December 2017. Although the total time to complete the renewal process was 557 days, the actual renewal review (after consolidation and termination) was completed in 286 days.

V. Technical Quality of Incident and Allegation Activities

23. For Agreement States, please provide a list of any reportable incidents not previously submitted to NRC (See Procedure SA-300, Reporting Material Events, for additional guidance, OMB clearance number 3150-0178).

- ▲ All reportable events have been previously submitted to NMED

24. Identify any changes to your procedures for responding to incidents and allegations that occurred during the period of this review.

- ▲ No changes to our protocols for handling incidents or allegations were implemented during the period of this review. However, all of the Radiation Control Program staff attended a SA-300 workshop conducted by NRC which provided a greater understanding of how to handle incidents and allegations.

C. **NON-COMMON PERFORMANCE INDICATORS**

I. Compatibility Requirements

25. Please list all currently effective legislation that affects the radiation control program. Denote any legislation that was enacted or amended during the review period.

- ▲ All specific enabling authority for Radiation Control Program is pursuant to RI Gen. Laws Chapter 23-1.3 - Radiation Control. [<http://www.rilin.state.ri.us/Statutes/TITLE23/23-1.3/INDEX.HTM>]. There have been no changes to our enabling legislation during the period of this review.

26. Are your regulations subject to a "Sunset" or equivalent law? If so, explain and include the next expiration date for your regulations.

- ▲ The Radiation Control Program’s regulations are subject to sunset requirements. The RCP must refile their regulations every five years. The Program last completed a refiling in January 2017. The next refiling is scheduled for 2022.

27. Please review and verify that the information in the enclosed State Regulation Status (SRS) sheet is correct. For those regulations that have not been adopted by the State, explain why they were not adopted, and discuss actions being taken to adopt them. If legally binding requirements were used in lieu of regulations and they have not been reviewed by NRC for compatibility, please describe their use.

- ▲ Rhode Island verifies that the information contained in the State Regulation Status sheet is correct. Rhode Island has adopted all changes through RATS 2015-5.

28. If you have not adopted all amendments within three years from the date of NRC rule promulgation, briefly describe your State's procedures for amending regulations in order to maintain compatibility with the NRC, showing the normal length of time anticipated to complete each step.

- ▲ No amendments are beyond the three year timeline at this time.
- ▲ RATS 2018-1, 2018-2, 2018-3, 2019-1, 2019-2, 2020-1, 2020-2, 2020-3 and 2021-1 are anticipated to be adopted prior to their effective dates. Amendments addressing RATS 2018-1, 2018-2, 2018-3, 2019-1, 2019-2, 2020-1, 2020-2 and 2020-3 were to have been included in a rulemaking package that was delayed due to a hold that was placed on all non-emergency rulemaking during the COVID-19 crises. The rulemaking package has recently been submitted to the Department's Rules Coordinator to initiate promulgation. Projected timeline is unknown at this time, but it is anticipated that rules could be in effect by the end of calendar 2021. No additional actions will be required to implement RATS 2021-1. The majority of the amendments involve changes to sections that Rhode Island has incorporated by reference, and the one remaining change has already been addressed in the pending rulemaking package.

II. Sealed Source and Device (SS&D) Evaluation Program

NOT APPLICABLE FOR RHODE ISLAND

29. Prepare a table listing new and amended (including transfers to inactive status) SS&D registrations of sources and devices issued during the review period.

30. Please include information on the following questions in Section A, as they apply to the SS&D Program:

Technical Staffing and Training - Questions 2-9

Technical Quality of Licensing Actions - Questions 18-22

Technical Quality of Incident and Allegation Activities - Questions 23-24

III. Low-level Radioactive Waste Disposal Program

NOT APPLICABLE FOR RHODE ISLAND

31. Please include information on the following questions in Section A, as they apply to the Low-Level Radioactive Waste Disposal Program:

Technical Staffing and Training - Questions 2-9

Status of Materials Inspection Program - Questions 10-14

Technical Quality of Inspections - Questions 15-17

Technical Quality of Licensing Actions - Questions 18-22

Technical Quality of Incident and Allegation Activities - Questions 23-24

IV. Uranium Recovery Program

NOT APPLICABLE FOR RHODE ISLAND

32. Please include information on the following questions in Section A, as they apply to the Uranium Recovery Program:

Technical Staffing and Training - Questions 2-9

Status of Materials Inspection Program - Questions 10-14

Technical Quality of Inspections - Questions 15-17

Technical Quality of Licensing Actions - Questions 18-22

Technical Quality of Incident and Allegation Activities - Questions 23-24

Appendix C
Radiation Control Program – Initial/Routine Inspections 2016-2021

| License # | Licensee | NRC License Type | Date of Inspection | Priority |
|------------------|---------------------------------|-------------------------|---------------------------|-----------------|
| 3B-114-01 | Cardinal Health | 02500 | 10/26/2018 | 2 |
| 3B-114-01 | Cardinal Health | 02500 | 04/29/2021 | 2 |
| 3D-005-01 | Electric Boat Corporation | 03320 | 10/14/2016 | 1 |
| 3D-005-01 | Electric Boat Corporation | 03320 | 12/18/2017 | 1 |
| 3D-005-01 | Electric Boat Corporation | 03320 | 01/22/2019 | 1 |
| 3D-005-01 | Electric Boat Corporation | 03320 | 12/03/2019 | 1 |
| 3D-005-01 | Electric Boat Corporation | 03320 | 12/05/2020 | 1 |
| 3D-005-01 | Electric Boat Corporation | 03320 | 04/27/2021 | 1 |
| 3D-065-01 | Thielsch Engineering | 03320 | 06/02/2017 | 1 |
| 3D-065-01 | Thielsch Engineering | 03320 | 08/22/2018 | 1 |
| 3D-065-01 | Thielsch Engineering | 03320 | 09/10/2019 | 1 |
| 3D-065-01 | Thielsch Engineering | 03320 | 08/14/2020 | 1 |
| 3D-065-01 | Thielsch Engineering | 03320 | 08/31/2021 | 1 |
| 3D-117-02 | OST Services | 03320 | 11/21/2017 | 1 |
| 3D-117-02 | OST Services | 03320 | 12/11/2018 | 1 |
| 3D-117-02 | OST Services | 03320 | 11/01/2019 | 1 |
| 3D-117-02 | OST Services | 03320 | 04/30/2021 | 1 |
| 3D-149-01 | Sky Testing | 03320 | 10/26/2020 | 1 |
| 3D-150-01 | National Inspection Consultants | 03320 | 12/04/2020 | 1 |
| 3E-100-01 | Rhode Island Blood Center | 03510 | 09/28/2020 | 5 |
| 3K-036-01 | Brown University | 01100 | 09/12/2017 | 3 |
| 3K-036-01 | Brown University | 01100 | 07/15/2021 | 3 |
| 3K-040-01 | University of Rhode Island | 01100 | 05/17/2017 | 3 |
| 3K-040-01 | University of Rhode Island | 01100 | 09/10/2019 | 3 |
| 3K-040-01 | University of Rhode Island | 01100 | 05/17/2021 | 3 |

| License # | Licensee | NRC License Type | Date of Inspection | Priority |
|-----------|-------------------------------------|------------------|--------------------|----------|
| 3K-045-03 | Women & Infants Hospital | 03620 | 09/08/2017 | 5 |
| 3K-126-01 | Ocean State Veterinary Services | 02400 | 12/27/2017 | 5 |
| 3K-136-01 | VeroScience | 03620 | 11/17/2020 | 5 |
| 3K-151-01 | Big River Veterinary Service | 02400 | 07/08/2021 | 5 |
| 3L-015-01 | RIDOT | 03121 | 07/28/2021 | 5 |
| 3L-050-01 | Geisser Engineering | 03121 | 06/11/2021 | 5 |
| 3L-065-02 | Thielsch Engineering (Gauges) | 03121 | 12/04/2018 | 5 |
| 3L-079-01 | GZA GeoEnvironmenal | 03121 | 04/24/2018 | 5 |
| 3L-083-01 | Briggs Engineering and Testing | 03121 | 12/10/2018 | 5 |
| 3L-119-01 | Terracon Consultants | 03121 | 12/19/2018 | 5 |
| 3L-142-01 | ATC Group Services | 03121 | 07/26/2019 | 5 |
| 3L-146-01 | Huestis Engineering | 03220 | 09/01/2020 | 5 |
| 3L-147-01 | Casali Engineering | 03121 | 12/20/2018 | 5 |
| 3L-148-01 | Civil and Environmental Consultants | 03121 | 04/02/2018 | 5 |
| 7A-051-02 | Rhode Island Hospital (GK) | 02310 | April 2016 | 2 |
| 7A-051-02 | Rhode Island Hospital (GK) | 02310 | 11/15/2018 | 2 |
| 7B-012-01 | South County Hospital | 02120 | 09/07/2017 | 3 |
| 7B-012-01 | South County Hospital | 02120 | 07/27/2021 | 3 |
| 7B-016-01 | Newport Hospital | 02120 | 03/22/2017 | 3 |
| 7B-016-01 | Newport Hospital | 02120 | 04/28/2021 | 3 |
| 7B-019-01 | Landmark Hospital | 02120 | 04/05/2018 | 3 |
| 7B-020-01 | Kent Hospital | 02120 | 03/25/2016 | 3 |
| 7B-020-01 | Kent Hospital | 02120 | 12/11/2019 | 3 |
| 7B-035-01 | Westerly Hospital | 02120 | 06/23/2016 | 3 |
| 7B-035-01 | Westerly Hospital | 02120 | 09/26/2019 | 3 |
| 7B-038-03 | NorthMain Radiation Oncology | 02230 | 05/09/2016 | 2 |
| 7B-038-03 | NorthMain Radiation Oncology | 02230 | 08/28/2018 | 2 |
| 7B-038-03 | NorthMain Radiation Oncology | 02230 | 07/30/2021 | 2 |

| License # | Licensee | NRC License Type | Date of Inspection | Priority |
|-----------|---|------------------|--------------------|----------|
| 7B-053-02 | SNERCC | 02230 | 10/13/2016 | 2 |
| 7B-073-02 | Richard Sanantonio, MD | 02201 | 08/24/2017 | 5 |
| 7B-120-01 | John D Lowney (Medical Group of RI) | 02201 | 12/15/2020 | 5 |
| 7B-125-01 | Cardiovascular Associates of RI | 02201 | 05/17/2018 | 5 |
| 7B-131-01 | Rhode Island P.E.T. Services | 02220 | 08/25/2017 | 2 |
| 7B-131-01 | Rhode Island P.E.T. Services | 02220 | 08/30/2019 | 2 |
| 7B-134-01 | Hartford Healthcare Medical Group | 02201 | 11/21/2017 | 5 |
| 7B-137-01 | Cardiovascular Institute of New England | 02201 | 03/12/2018 | 5 |
| 7B-139-01 | Roger Williams Radiation Therapy | 02230 | 11/22/2017 | 2 |
| 7B-139-01 | Roger Williams Radiation Therapy | 02230 | 11/26/2019 | 2 |
| 7B-144-01 | JNA Associates | 02201 | 11/18/2020 | 5 |
| 7B-144-01 | JNA Associates | 02201 | 06/22/2021 | 5 |
| 7B-145-01 | Ocean State Cardio and Vein Center | 02201 | 12/02/2020 | 5 |
| 7D-026-01 | Roger Williams Medical Center | 02110 | 03/07/2017 | 2 |
| 7D-026-01 | Roger Williams Medical Center | 02110 | 01/31/2019 | 2 |
| 7D-051-01 | Rhode Island Hospital | 02110 | 04/27/2016 | 2 |
| 7D-051-01 | Rhode Island Hospital | 02110 | 12/05/2018 | 2 |
| 8A-009-01 | RIEMA | 03710 | 12/13/2018 | 5 |

Appendix D Reciprocity Inspections – 2016-2021

| PRIORITY | 2016 | 2017 | 2018 | 2019 | 2020 | 2021* |
|--|-------------|-------------|-------------|-------------|-------------|--------------|
| Category A Reciprocity | 3 | 5 | 5 | 5 | 3 | 4 |
| Category B Reciprocity | 2 | 2 | 4 | 4 | 4 | 3 |
| Total A & B Reciprocity Authorizations | 5 | 7 | 9 | 9 | 7 | 7 |
| Inspections Conducted | 3 (60%) | 3 (43%) | 3 (34%) | 3 (34%) | 0 | 2 (29%) |
| Category C Reciprocity | 1 | 5 | 4 | 12 | 13 | 6 |

*Reciprocity as of 1 October 2021

Appendix E

Accompaniments – 2016 to 2020

| INSPECTOR | REVIEWER | LICENSE CATEGORY | DATE |
|-------------------|-------------------|---------------------------------------|-------------|
| Maria Barnes | William Dundulis | 02201 Med. Private Prac. - no WD Req. | 21 Nov 2017 |
| Maria Barnes | William Dundulis | 03320 Indust. Radiography | 22 Aug 2018 |
| Charma Waring | William Dundulis | 02310 Stereotactic Radiosurgery | 10 Oct 2018 |
| Maria Barnes | William Dundulis | 03510 Irrad. Self-Shield < 370 TBq | 5 Dec 2018 |
| Maria Barnes | Dennis Klaczynski | 02120 Med. Institution - WD Req. | 11 Dec 2019 |
| William Dundulis | Dennis Klaczynski | 02230 Med. Private Prac. – WD req. | 12 Dec 2019 |
| Tom Caruolo | Dennis Klaczynski | 03320 Indust. Radiography | 05 Dec 2019 |
| Dennis Klaczynski | William Dundulis | 03320 Indust. Radiography | 30 Dec 2019 |
| Tom Caruolo | Dennis Klaczynski | 03620 R&D Limited Scope | 17 Nov 2020 |
| Maria Barnes | Dennis Klaczynski | 02201 Med. Private Prac. - no WD Req. | 18 Nov 2020 |

Appendix F

Current List of Radioactive Materials Licensees

| LICENSE # | LICENSEE | NRC LICENSE TYPE |
|-----------|--|--|
| 3B-114-01 | Cardinal Health | 02500 Nuclear Pharmacies |
| 3D-005-01 | Electric Boat Corporation | 03320 Indust. Radiography Temp Jobsite |
| 3D-065-01 | Thielsch Engineering Inc | 03320 Indust. Radiography Temp Jobsite |
| 3D-117-02 | OST Services (OSTS) | 03320 Indust. Radiography Temp Jobsite |
| 3D-149-01 | Sky Testing Services Inc | 03320 Indust. Radiography Temp Jobsite |
| 3D-150-01 | National Inspection & Consultants | 03320 Indust. Radiography Temp Jobsite |
| 3E-100-01 | Rhode Island Blood Center | 03510 Irrad. Self-Shield < 370 TBq |
| 3K-036-01 | Brown University | 01100 Academic Type A Broad |
| 3K-040-01 | University Of Rhode Island | 01100 Academic Type A Broad |
| 3K-045-03 | Women And Infants Hospital | 03620 Research/Development Other |
| 3K-126-01 | Ocean State Veterinary Specialists | 02400 Veterinary Nonhuman |
| 3K-136-01 | Vero Science LLC | 03620 Research/Development Other |
| 3K-151-01 | Big River Veterinary Service | 02400 Veterinary Nonhuman |
| 3L-015-01 | RI Dept of Transportation | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-050-01 | Geisser Engineering Corporation | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-065-02 | Thielsch Engineering Inc | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-079-01 | GZA Geoenvironmental Inc | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-083-01 | PK Associates | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-096-01 | Professional Service Industries Inc | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-119-01 | Terracon Consultants Inc | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-142-01 | ATC Associates Incorporated | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-146-01 | Huestis Machine Corporation | 03220 Leak Test Services Only |
| 3L-147-01 | Joe Casali Engineering Inc | 03121 Meas Sys Port Gauge inc Lixiscop |
| 3L-148-01 | Civil & Environmental Consultants | 03121 Meas Sys Port Gauge inc Lixiscop |
| 7A-051-02 | Rhode Island Hospital | 02310 Stereotactic Radiosurgery |
| 7B-012-01 | South County Hospital | 02121 Med. Institution - no WD Req. |
| 7B-016-01 | Newport Hospital | 02120 Med. Institution - WD Req. |
| 7B-019-01 | Landmark Medical Center | 02121 Med. Institution - no WD Req. |
| 7B-020-01 | Kent Hospital | 02120 Med. Institution - WD Req. |
| 7B-035-01 | Westerly Hospital | 02121 Med. Institution - no WD Req. |
| 7B-038-03 | NorthMain Radiation Oncology | 02230 High-Med-Pulsed Dose Afterload |
| 7B-073-02 | Richard P Sanantonio MD | 02201 Med. Private Prac. - no WD Req. |
| 7B-120-01 | John D Lowney DO | 02201 Med. Private Prac. - no WD Req. |
| 7B-125-01 | Cardiovascular Associates of Rhode Island | 02201 Med. Private Prac. - no WD Req. |
| 7B-131-01 | Rhode Island P.E.T. Services LLC | 02220 Mobile Nuclear Medicine Serv. |
| 7B-134-01 | Hartford Healthcare Medical Group | 02201 Med. Private Prac. - no WD Req. |
| 7B-137-01 | Cardiovascular Institute of New England PC | 02201 Med. Private Prac. - no WD Req. |
| 7B-139-01 | Roger Williams Radiation Therapy LLC | 02230 High-Med-Pulsed Dose Afterload |

| LICENSE # | LICENSEE | NRC LICENSE TYPE |
|------------------|--|---------------------------------------|
| 7B-145-01 | Ocean State Cardiovascular & Vein Center | 02201 Med. Private Prac. - no WD Req. |
| 7D-026-01 | Roger Williams Medical Center | 02110 Med. Institution Broad |
| 7D-051-01 | Rhode Island Hospital | 02110 Med. Institution Broad |
| 8A-009-01 | RI Emergency Management Agency | 03710 Civil Defense |

**Appendix G:
Renewals Issued - 2016–2021**

| LICENSE # | LICENSEE | NRC LICENSE TYPE | DATE RECEIVED | DATE APPROVED | REVIEW DAYS |
|------------------|--|--|----------------------|----------------------|--------------------|
| 7B-043-01 | Memorial Hospital of Rhode Island | 02120 Med. Institution - WD Req. | 30 Mar 2012 | 06 Oct 2016 | 1651 |
| 3D-005-01 | Electric Boat Corporation | 03320 Indust. Radiography Temp | 31 May 2012 | 29 Nov 2016 | 1643 |
| 7D-045-02 | Women and Infants Hospital ³ | 02110 Med. Institution Broad | 25 Oct 2012 | 05 May 2017 | 1653 |
| 3L-065-02 | Thielsch Engineering, Inc. | 03121 Meas Sys Port Gauge inc | 21 May 2013 | 28 Aug 2017 | 1560 |
| 7B-131-01 | Rhode Island P.E.T. Services, LLC | 02220 Mobile Nuclear Medicine Serv. | 20 Mar 2014 | 21 Jun 2017 | 1189 |
| 3L-107-01 | Paul B Aldinger & Associates Inc | 03121 Meas Sys Port Gauge inc | 19 Aug 2014 | 31 July 2017 | 1077 |
| 3L-096-01 | Professional Service Industries, Inc. | 03121 Meas Sys Port Gauge inc | 26 Feb 2015 | 28 Feb 2017 | 733 |
| 7D-051-01 | Rhode Island Hospital | 02110 Med. Institution Broad | 6 Jul 2015 | 9 Apr 2018 | 1008 |
| 3E-100-01 | Rhode Island Blood Center | 03510 Irrad. Self-Shield < 370 | 20 Jan 2016 | 20 Jan 2017 | 366 |
| 7B-035-01 | LMW Healthcare Inc dba The Westerly Hospital | 02120 Med. Institution - WD Req. | 7 Jun 2016 | 13 Oct 2016 | 128 |
| 8A-009-01 | RI Emergency Management Agency | 03710 Civil Defense | 10 Jun 2016 | 19 Dec 2017 | 557 |
| 3L-050-01 | Geisser Engineering Corporation | 03121 Meas Sys Port Gauge inc | 13 Jun 2016 | 07 Feb 2017 | 239 |
| 3L-119-01 | Terracon Consultants Inc | 03121 Meas Sys Port Gauge inc | 22 Jun 2016 | 26 May 2017 | 338 |
| 3K-036-01 | Brown University | 01100 Academic Type A Broad | 23 Jun 2016 | 12 Dec 2016 | 55 |
| 3K-126-01 | Ocean State Veterinary Specialists | 02400 Veterinary Nonhuman | 24 Aug 2016 | 20 Sep 2016 | 27 |
| 7B-137-01 | Cardiovascular Institute of New England PC | 02201 Med. Private Prac. - no WD Req. | 28 Nov 2016 | 23 Mar 2017 | 115 |
| 3K-040-01 | University of Rhode Island | 01100 Academic Type A Broad | 21 Feb 2017 | 3 May 2017 | 71 |
| 7B-134-01 | Hartford HealthCare Medical Group | 02201 Med. Private Prac. - no WD Req. | 23 Feb 2017 | 1 Jun 2017 | 98 |
| 3K-136-01 | Vero Science LLC | 03620 Research/Development Other | 25 Jul 2017 | 3 Aug 2017 | 9 |
| 3D-065-01 | Thielsch Engineering, Inc. | 03320 Indust. Radiography Temp Jobsite | 8 Aug 2017 | 19 Sep 2017 | 42 |

³ Women & Infants license 7D-045-02 was terminated as part of the renewal process due to a decrease in the scope of activity to be conducted under the license. A new license 3K-045-03 [license type 03620] was issued in lieu of a renewal.

| LICENSE # | LICENSEE | NRC LICENSE TYPE | DATE RECEIVED | DATE APPROVED | REVIEW DAYS |
|------------------|----------------------------------|--|----------------------|----------------------|--------------------|
| 7B-125-01 | Cardiovascular Associates of RI | 02201 Med. Private Prac. - no WD Req. | 30 Apr 2018 | 27 Jul 2018 | 88 |
| 7B-139-01 | Roger Williams Radiation Therapy | 02230 High-Med-Pulsed Dose | 7 Aug 2018 | 05 Nov 2018 | 90 |
| 3L-083-01 | PK Associates | 03121 Meas Sys Port Gauge inc Lixiscop | 9 Aug 2018 | 25 Sep 2018 | 47 |
| 7B-073-02 | Richard Sanantonio, MD | 02201 Med. Private Prac. - no WD Req. | 10 Aug 2018 | 16 Oct 2018 | 67 |
| 7B-019-01 | Landmark Medical Center | 02120 Med. Institution - WD Req. | 21 Aug 2018 | 19 Oct 2018 | 29 |
| 7B-016-01 | Newport Hospital | 02120 Med. Institution - WD Req. | 1 Mar 2019 | 24 Apr 2019 | 55 |
| 7B-012-01 | South County Hospital | 02120 Med. Institution - WD Req. | 23 Apr 2019 | 23 May 2019 | 30 |
| 7B-020-01 | Kent Hospital | 02120 Med. Institution - WD Req. | 31 Dec 2019 | 16 Sep 2020 | 260 |
| 3B-114-01 | Cardinal Health | 02500 Nuclear Pharmacies | 10 Feb 2020 | 17 Apr 2020 | 67 |
| 3L-015-01 | RI Dept of Transportation | 03121 Meas Sys Port Gauge inc Lixiscop | 20 Jul 2020 | 26 Oct 2020 | 98 |
| 3L-142-01 | ATC Associates Incorporated | 03121 Meas Sys Port Gauge inc Lixiscop | 31 Mar 2021 | 23 Jul 2021 | 114 |